

# AUTO OPPORTUNITIES

## MIRRORS ON AUTOS ARE AMONG BEST. PREVENTS ACCIDENTS

Mirrors on automobiles, showing the driver, at a glance the condition of traffic immediately behind him, are among the best preventives of traffic accidents in use today, according to A. A. A. officials. Mounted at the left side of the windshield on the rear car, or screwed to the frame of the closed car in the same position, the mirror calls immediate attention to a car approaching from the rear, and often saves a collision, with resultant loss to both cars, it is pointed out.

"The A. A. A. has always maintained that every truck in the United States should be equipped with a mirror," said M. O. Eldridge, executive chairman of the A. A. A. "and the addition of a mirror to the left hand side of the passenger automobile would prove a large added factor of safety. The A. A. A. rule of the road is that one vehicle approaching another from the rear and passing it shall pass to the left of the vehicle ahead, and this rule gives the driver with a left hand mirror a perfect view of the approaching motorist and enables him to give the passing car its share of the road. It does not attract the attention of the driver from the road ahead, as a passing glance is all that is needed to show him traffic conditions to the rear of his car."

"Fifteen states and the District of Columbia now require mirrors on trucks, the states being Vermont, Washington, California, Connecticut, Delaware, Pennsylvania, New York, Indiana, Kentucky, Maryland, Maine, Massachusetts, Michigan, Missouri and New Jersey. Nevada is now considering such a law and the movement is spreading to other states."

"Passenger cars can benefit from this example and their drivers can do much to increase their present margin of safety by affixing a small mirror to the left hand side of the cars."

## "LISTENING IN"

J. V. Mauser, writing in the Leo News, contributes the following "Listening in" paragraphs—

Show us the man who recognizes that knowledge does not come by intuition or inspiration, but by study and application.

Show us the man who can hold his head high without a collar.

Show us the man who does not dream of success, but goes forth and makes it.

Show us the man who can walk down the street and keep smiling as he passes signs reading "30x3 1/2 reduced to \$6.75".

Show us the man who claims he is a bear for work and proves it.

Show us the man who always says the right thing at the right time, and knows his reason for doing so.

Show us the man who can do a polite act to a good looking woman, and not spoil it by asking for her address.

Show us the man who can sell a tire with 20,000 mile guarantee and refuse a No Charge Adjustment when it delivers 8000 miles.

**THE COOPER MOTOR COMPANY TO OCCUPY NEW SALESROOM JAN. 1**

The growth of the Cooper Motor company's business during the past 18 months has made it necessary for them to seek larger quarters and they have succeeded in leasing for a term of years the building at 211 and 213 North Fourth street. This is the salesroom now occupied by the Southwest Motor Co.

They will move on January 1. The new location will give them one of the most attractive salesrooms in the city and ample room to exhibit their splendid line of cars. The service department will have a floor space of approximately 2,500 square feet and will enable the Cooper Motor company to give their customers even more prompt and efficient service than they have been accustomed to give.

**DURANT QUARTERS NOW ON WEST COPPER AVE.**

The Pilcher Motor company, distributors for the Durant and Star cars in this territory and who have formerly been located at 229 North Fourth street, announce a change in their quarters both of sales room and service station, to 414 West Copper avenue. Their new location will give them added floor space in both their sales and service departments and they wish to assure all owners of Durant and Star cars that they are now situated so that they can handle all their service requirements in a very satisfactory manner. They further announce an addition to their sales force in Al C. Vierheller, who has formerly been connected with several prominent automobile firms of this city.

**FRANKLIN ANNOUNCES BEHIND IN ITS ORDERS**

Joe Myers, the local distributor for the Franklin car, has received the following information from the home of the Franklin car at Syracuse, N. Y.:

"Never before in our history have we had at this time of year so many unfilled retail orders for cars," says H. H. Franklin, president of the H. H. Franklin Manufacturing company. "We are over-sold not only on our closed models, which naturally are in greater demand in the winter months, but also on open models. During the first three weeks of last month the number of retail orders exceeded those for the entire month of October. Our dealers report a constant call for used Franklins, business from this source in November exceeding October records."

California boasts of a woman heavyweight boxer.

## RECORD TRUCK RUN MADE IN DELIVERY OF PRESIDENT'S FOWL

As the result of an appeal to the General Motors Truck company of Pontiac, Mich., to deliver the turkey for President and Mrs. Harding's Thanksgiving dinner at the White House, a record non-stop run of 825 miles between Chicago and Washington was made on November 27 and 28.

A GMC truck carrying "Supreme III," an Illinois bronze turkey, the gift of the Harding Girls' club of Morris & Co., to President and Mrs. Harding, left Chicago Sunday night, November 26, and the turkey was delivered at 7:30 o'clock Tuesday morning after an elapsed running time of 27 hours and 24 minutes. An average speed of 23 miles an hour was made.

At the White House the turkey was received by Senator McKinley and Representative Fred I. Britton of Illinois; Pyke Johnson, secretary of the National Automobile Chamber of Commerce; Secretary of Agriculture Wallace, and George Christian, secretary to President Harding.

The entire party, including the drivers and the Misses Marie Maddox and Elsie Allen, representing the Harding Girls' club, then went into the office of President Harding, where the chief executive thanked them for their efforts and extended his greetings to the Harding Girls' club. Senator McKinley, Mr. Johnson and Congressman Britton complimented the drivers on their remarkable record.

Snow and ice were encountered for 100 miles through the mountains.

Otto Frazier, of the Chicago branch of the truck company, and Bert Harcourt, service expert of the truck company, drove from Chicago to just outside of Wheeling, W. Va., maintaining an average speed of about 30 miles an hour. They were relieved by Roy Kloss of Wheeling, who took the truck through the mountains safely, over one of the most dangerous roads in the country, ascending grades as high as 2,900 feet.

For the last three years it has been the annual custom of the Harding Girls' club to send the President and the first lady of the land their Thanksgiving dinner but this year, due to the scarcity of large turkeys, one weighing 41 pounds could not be obtained in several days prior to Thanksgiving, making it too late to be sent by messenger or train.

The girls made a special motor cart of black and gold for the bird to insure him against catching cold and a special cage was built, mounted on the rear of the truck on spiral springs to insure his comfort. Special feed and water were carried the entire distance.

The route followed by the truck was the National Old Trail, leading from Chicago to Indianapolis, Columbus, Zanesville, Wheeling, Uniontown, Pa., and over the mountains to Cumberland, Md., and into the District of Columbia.

**CANNON BALL BAKER CHIPS OFF ANOTHER RECORD ON TRIP**

Erwin G. "Cannon Ball" Baker, famous racing driver and winner of many speed and endurance runs, has lowered another transcontinental record. This time, Baker has punctured the economy record by taking a 12 1/2 cubic inch Nercar from New York to Los Angeles, 3,364.2 miles on 40 gallons of gas and 44.75 pints of oil at a fuel cost of \$15.70.

Baker's running time of 174 hours and one minute (or 7 days, 6 hours and one minute) gives him an average of 19.3 miles per hour and 74.76 miles per gallon. The Nercar, made at Syracuse, N. Y., is the smallest vehicle to make the trip under its own power. It was Baker's sixtieth transcontinental trip.

## The Trouble Shooter

TELLS YOU  
*what's wrong*

By E. H. SCOTT

This is the fourth of a series of specially prepared and illustrated articles showing the ordinary automobile driver how to locate any engine trouble

## What To Do When the Engine Slows Up and Stops on the Road or Starts Up and Runs for a Short Time Then Stops

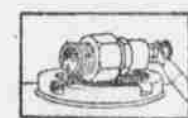
1. Look in the gasoline tank to see that you have sufficient gasoline, and examine the small hole in the Tank Cap to see that it is not blocked up. If you have enough gasoline and the hole is clear then—



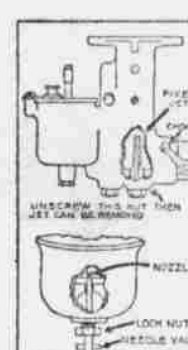
2. Lift the hood and open the drain plug at the bottom of the Carburetor or hold the Float Valve open as shown in the illustration, AND KEEP IT OPEN FOR AT LEAST 8 SECONDS, TO SEE THAT THE GASOLINE CONTINUES TO FLOW IN A STEADY STREAM. If it STOPS flowing FREELY after a few seconds, or DOES NOT FLOW AT ALL, then the trouble lies in the Vacuum Tank or its connections, and the instructions given in the second article of this series will show you how to find the exact part. If, however, the gasoline continues to flow FREELY then—



3. The Choker or Priming button on the dash opens and closes a Valve in the main air entrance to the Carburetor. Examine to see that the wire leading through from this button is FIRMLY ATTACHED to the lever on the Valve. If it SEEMS to be all right, then make sure that the Valve itself is not stuck or jarred CLOSED or PARTLY CLOSED across the air entrance. The Carburetor, see that it is not stuck OPEN. If both above are all right then—



4. Take out a Spark Plug and after attaching the wire again lay it on top of the cylinder as shown. Now turn the engine over while you watch the points of the Plug to see if there is a spark. If there is NOT, then the trouble lies in the Ignition, and the instructions given in last week's article will show you how to find the exact part of the Ignition System at fault. If however, you SEE a spark, then—

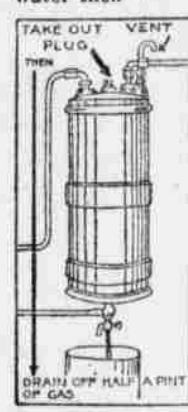


5. Test to see if the Gasoline Spraying Nozzle in the Carburetor is not blocked. There are two types of Nozzles, the fixed type, which has a Jet, and the adjustable type, which has a Needle Valve. The illustration shows both types. Consult Carburetor maker's instruction on clearing a blocked Jet if possible. If you have a Fixed Jet, as in a Zenith Carburetor, turn off the gasoline, then unscrew the plug underneath the Jet and it can be screwed out. If the Jet is blocked, DO NOT use a piece of wire to clear it, as this may make the hole slightly larger and upset the "tune" of the Carburetor. Try and blow or jar the dirt out.

If you have an Adjustable or Needle Valve Gasoline adjusting screw that can be screwed up or down, unscrew the lock nut a trifle, then screw the Valve out EXACTLY FOUR TURNS. Now set the throttle lever WIDE OPEN but PULL OUT the Choker, then turn the engine over as fast as possible with either the Starter or hand crank about ten times, then push in the Choker and turn the Needle Valve back EXACTLY FOUR TURNS.

Now see if the engine will start. If it STILL will not start then—

6. Turn off the gasoline and drain all that remains in the Carburetor Float Chamber into a cup or can, and examine to see if there is any water in it. If there is, it will be noticed lying in little globules at the bottom of the can, so drain off some gasoline from the bottom of the Vacuum Tank and some from the bottom of the main tank, and it will generally cure the trouble. If, however, there is NO SIGN of water then—



7. Examine the hole in the end of the Vent Pipe on the Vacuum Tank to see that it is not blocked up. If it is free, then screw out the small plug from the top of the Vacuum Tank and also drain off about half a pint of gasoline from the bottom of the Vacuum Tank, then try to start the engine. If it now starts and keeps running, and in about a minute is firing REGULARLY, the Float in the Tank is punctured or the Suction Valve is not seating properly, and it will require a Service Station to repair it. You can get home by leaving the plug out of the top of the tank and driving until the engine stops again, when the gasoline in the tank will have been used. Just replace the plug in the tank and turn the engine over about a dozen times or until the tank is full, then take it out and drive on again, continuing in this way until you reach a Service Station. If, however, it makes NO DIFFERENCE in the running of the engine whether the Plug is IN or OUT, then—

8. Check the Ignition Timing to see if it has slipped. The timing varies a trifle on different engines, so if possible consult the Instruction Book you got with your car, to see what the EXACT setting should be. The following setting is near enough to CHECK UP your timing. If there is VERY much difference, then your Ignition timing has slipped, and will require an expert mechanic to set correctly. Check as follows—

Take out the Spark Plug from No. 1 cylinder (this is the cylinder next the radiator), then place your thumb over the Spark Plug hole, while you have some one turn the engine over SLOWLY, until you feel a PRESSURE against the thumb. As soon as you feel the pressure insert a piece of wire down the Spark Plug hole, so that you can feel when the Piston, which is coming up, reaches EXACTLY the top of its stroke. On some engines you can SEE the piston when it reaches the top of its stroke, and in that case the wire is not necessary. The cylinder is now at the top of its compression stroke, and both Valves should be closed. Now see that the Spark Lever is FULLY RETARDED, then take off the Distributor Head, and if the timing is correct, the Breaker Points will be JUST BEGINNING TO OPEN, and the Distributor Arm Contact will be pointing EXACTLY opposite the point or segment inside the Distributor Head which is attached to the wire leading to No. 1 cylinder. If the timing checks up ALL RIGHT, then—

9. Remove the Muffler and take it apart and clean it.

**NEXT WEEK—WHAT TO DO WHEN THE ENGINE STOPS SUDDENLY BECAUSE IT IS SEIZED UP OR IS OVERHEATING BADLY.**

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If we do your radiator repair work. We know all the types on the market and yours will not trouble us either. Our work is warranted to give no trouble, and will last for years. Take no chances with a leaky or broken radiator.

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217 North Third

JOURNAL WANT ADS BRING QUICK, SURE RESULTS

## DODGE BROTHERS SEDAN

Many women who could well afford more expensive closed cars prefer the sedan for their personal use.

They find it easy to drive, easy to park, economical to run, and comparable in the beauty and richness of its appointments with cars much higher in price.

The upholstery is done in genuine mohair velvet of a singularly rich and beautiful pattern. The seats are roomy and luxurious. The hardware and minor fittings reflect thoughtfulness and rare good taste.

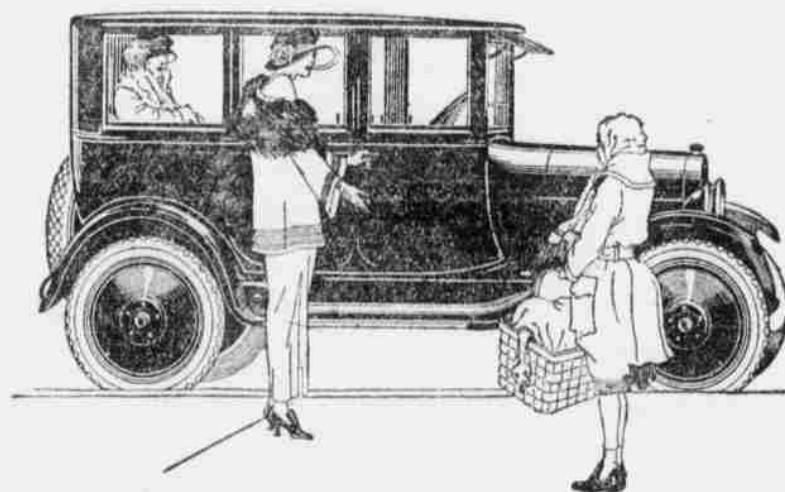
Steel disc wheels (with cord tires) screen the under part of the car and harmonize in a most effective way with the new grace and smartness which Dodge Brothers have recently brought to the lines of the body.

The price is \$1,625 delivered F. O. B. Albuquerque.

**J. KORBER & CO.**

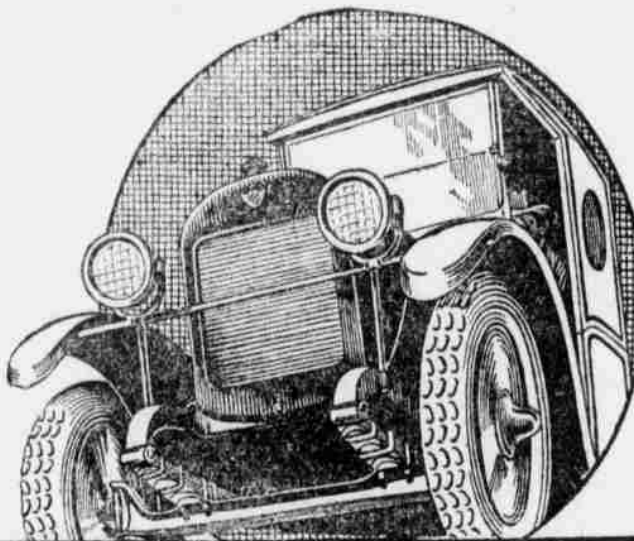
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Chassis  
Price  
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## SPEED WAGON

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BASED on the amount of tonnage daily carried by more than seventy-five thousand Speed Wagons which serve in over 263 lines of business—

The Speed Wagon is today the most vital factor in highway freightage.

Power to surmount the rigors of rough travel—ruggedness that makes possible half a million miles of service—fleetness that discounts mere load-carrying capacity—economy that makes a smaller investment expensive and a larger one less profitable—

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**Paulin Motor Car Company, Inc.**

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Phone 677

REO MOTOR CAR COMPANY, Lansing, Michigan

## Christmas Gift Suggestion:

Give a Bicycle. It is useful, economical, convenient—a means of healthful, pleasant, moderate, outdoor exercise.

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